

IN THE CLAIMS

This listing of claims will replace all prior versions of claims in the application. Claim 10 was found to be an exact duplicate of claim 9 and has therefore been formally cancelled. Claims 1, 5, 7, and 11 have been amended.

1 Claim 1 (currently amended) An apparatus comprising:

2 a substrate with holes embossed therein with a die; and

3 carbon nanotubes deposited in the empty embossed holes.

1 Claim 2 (original) The apparatus as recited in claim 1, further comprising:

2 a conductive layer within the substrate electrically connecting at least a portion of the carbon
3 nanotubes within a plurality of the holes.

1 Claim 3 (original) The apparatus as recited in claim 2, further comprising:

2 a gate electrode coextensive with the substrate.

1 Claim 4 (original) The apparatus as recited in claim 2, a material for affixing the carbon nanotubes
2 within the holes.

1 Claim 5 (currently amended) The apparatus as recited in claim 3, further comprising:

2 an anode positioned a distance from the substrate, having a cathodoluminescent material
3 ~~phosphor~~ for emitting photons in response to bombardment from electrons emitted by the carbon
4 nanotubes.

1 Claim 6 (original) The apparatus as recited in claim 5, further comprising:
2 circuitry for causing the electrons to be emitted by the carbon nanotubes.

1 Claim 7 (currently amended) A data processing system comprising:
2 a processor;
3 a memory device;
4 a storage device;
5 an input device;
6 a display device; and
7 a bus system for coupling the processor to the memory device, the storage device, the input
8 device, and the display device, wherein the display device further comprises:
9 a substrate with holes embossed therein with a die; and
10 carbon nanotubes deposited in the empty embossed holes.

1 Claim 8 (original) The data processing system as recited in claim 7, further comprising:
2 a conductive layer within the substrate electrically connecting at least a portion of the carbon
3 nanotubes within a plurality of the holes.

1 Claim 9 (original) The data processing system as recited in claim 8, further comprising:
2 a gate electrode coextensive with the substrate.

Claim 10 (cancelled)

1 Claim 11 (currently amended) The data processing system as recited in claim 9, further comprising:
2 an anode positioned a distance from the substrate, having a cathodoluminescent material
3 ~~phosphor~~ for emitting photons in response to bombardment from electrons emitted by the carbon
4 nanotubes.

1 Claim 12 (original) The data processing system as recited in claim 11, further comprising:
2 circuitry for causing the electrons to be emitted by the carbon nanotubes.

Claims 13-18 (cancelled)